

BALL LIGHTNING - MADE TO ORDER

Over half a century after Nikola Tesla demonstrated what was later referred to as "Ball Lightning" - it would appear it has been "discovered" again.

"Ball Lightning" has usually been the subject of folklore, with many scientists being skeptical about the existence of such a phenomenon.

There are many stories of "balls of fire" that float through the air, often about 1 foot in diameter, with the ability to float against the wind, or even through walls and glass.

But now, physicists in Japan have created discharges of plasma - hot, ionised gas, similar to ball lightning.

Using a microwave oscillator, or magnetron, to generate up to 5 kilowatts of microwave power at a frequency of 2.45 gigahertz, the radiation is guided into an air-filled metal cavity measuring 161 mm in diameter, and 370mm long. (*Nature*, Vol. 350, p.139).

The microwaves are reflected up and down the cavity, setting up a so-called standing wave. This has 6 "antinodes" - points at which the field is strongest.

Y.H. Ohtsuki of Waseda University in Tokyo, and H. Ofurton of the Tokyo Metropolitan College of Aeronautical Engineering filmed several different kinds of plasma discharge, which originated at the antinodes: stationary fire-balls, and moving flames.

In some instances, these remained for 1 to 2 seconds after the magnetron was turned off.

When the researchers placed a ceramic board 3mm thick between the cavity and the waveguide, the plasma went right through the board without damaging it.

A 100mm long copper bar placed in the cavity produced many of these plasma balls, some of which travelled along the bar. Even when a strong wind was introduced into the cavity, some balls continued to travel down the bar apparently unaffected.

(Source: *New Scientist* 23 March 1991, page 20)

WORLD'S FIRST PLASTIC TREE

A Spanish inventor is patenting the world's first plastic tree, which he says can help generate rain if planted in desert regions.

Antonio Ibanez, an engineer from Barcelona, claims that the French and Arab governments are pursuing him for his secrets.

The tree apparently absorbs dew and frost at night and slowly releases water during the day, thus cooling the surface air.

Libya has begun a pilot project with 40,000 trees.

Once ground temperatures are cool enough to ensure regular rainfall, the palms could be replaced by real trees.

(Source: *Sun-Herald*, 9th June 1991)

SEA WATER - A NEW FUEL ALTERNATIVE?

Seawater, or even dirty rainwater, could be transmuted into fuel through a new technique serendipitously discovered by a researcher in medical electronics.

Dr. Andrija Puharich has found a way to split water molecules by tuning in on the vibrations of their atoms and breaking the molecules into hydrogen, which could become fuel, and oxygen.

Alternating Current impulses augment naturally occurring vibrations in the H₂O molecules. By boosting the vibrations out of control, Puharich makes the molecules fly apart into the component atoms.

He likens the water-splitting effect to the way soldiers marching in step across a bridge

risk damaging the structure by making it vibrate at a critical stress-producing rate.

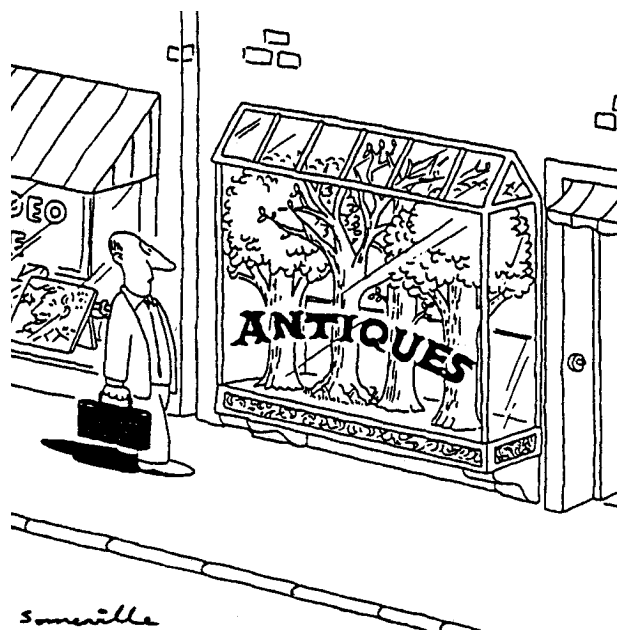
Electrolysis by simple direct current would create hydrogen and oxygen with a net energy efficiency of only 54%, according to Puharich, but he says his alternating current system reaches better than 90% efficiency.

Puharich discovered the water splitting technique over 12 years ago, but has only recently gone public. Originally he was investigating the disruptive effect of electrical resonances on blood clots and noticed a peculiar thing: in dilute blood, specific frequency made bubbles appear in the liquid. Lab analysis later showed that the bubbles were composed of hydrogen and oxygen.

A barrel-shaped cavity contains the water in Puharich's recently refined system. He introduces alternating current at a key frequency of 600 cycles per second.

The cavity resonates with the impulses in somewhat the same way the body of a violin resonates with the sound of one string, adding higher and lower harmonics to the principal tone.

The additional harmonics, says Puharich, cause the proton in the hydrogen atom to



rotate, further forcing the hydrogen to split from the oxygen.

(Source: KeelyNet BBS - 212 324 3501; sponsored by Vanguard Sciences, PO Box 1031, Mesquite, Texas. 75150 USA)

WHATEVER HAPPENED TO ...?

Several newspapers have referred to a new invention by one William Timmis, which if successful, will revolutionise motive power.

The inventor is an unpretentious English mechanic residing in Pittsburg, Pennsylvania, who claims to have invented a machine which can store untold motive power or can be used without the expenditure of fuel.

The story goes that he has been engaged for two years in perfecting the invention, and is now negotiating with the governments of England, Russia, and the United States for the sale of the right to use his discovery, which, if after examination it proves to be what he claims, will revolutionise the motive powers of the world.

He claims to be able to create a pressure of 20,000 pounds per square inch - more than sufficient to propel the largest ocean steamer afloat or to move eighty laden freight cars in one train.

The machine seems to be simply an Air Compressor of the simplest sort.

It consists of one small cylinder (six horse power), with a balance weight of 75 pounds, which runs the entire apparatus. Another small cylinder, 5" in diameter,

with a 7" stroke, compresses air into the tank from which the power is utilised.

Under the piston plate the inventor has placed two layers of bars containing eleven different minerals, the magnetic influence of which is the secret of the inventor.

The advantages he claims are durability, economy, and simplicity. Experts have examined the machine and pronounce it a success.

In submitting his design to the governments named, Mr. Timmis claims that the Pneumatic Generator can not only be applied to war vessels as a motor, but can be used as a defense against hostile attacks by means of air chambers placed behind the armour plating.

(Source: Scientific American - August 4th, 1888, page 69)

ALIEN GLYPH MESSAGES DECODED BY SUPERCOMPUTER?

by Chris Illert

Of course my colleagues and I had all heard of strange circular patterns appearing in cornfields around the world, but until seeing more than a dozen at one time (in Nexus, May/June, 1991), we did not realise how intricate these patterns were, nor how much potential information they contained.

Colleagues at the computing centre brought this matter to my attention knowing that I am a physicist and computer scientist who, in the past, has also deciphered ancient Egyptian and South American glyph messages.

Over a cup of tea we agreed upon the "terms of reference" for an investigation.

Assuming that these cornfield patterns are "glyphs" from an advanced alien language, it was my task to decode them and deduce their likely meaning.

The first thing to notice about the "glyphs" is that they do not appear to be part of a linear script - you would not fill a wall on King Tut's tomb (or even a page of a newspaper) with them.

Instead they fit inside each other, and join together, making a small number of complex composite objects.

An early impression was that the glyphs could be blue-prints for the construction of some kind of "machine" or "device". And

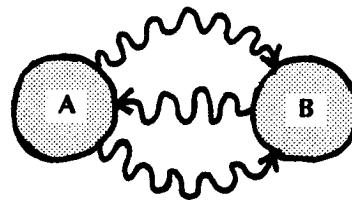
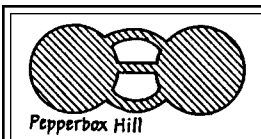
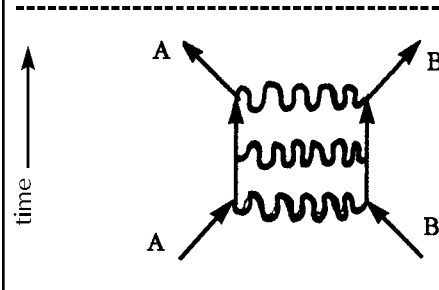


Diagram 1

A "snap-shot" of 3 messenger particles hopping back and forward between the subatomic particles A and B.

Quantum Field interpretation of the Pepperbox Hill glyph



The same process represented as a "Feynman Diagram" (with time plotted vertically) shows subatomic particles 'A' and 'B' coming together, exchanging 3 messenger particles, then moving apart.

whilst ancient Egyptian texts might talk of lilies and waterwheels in the Nile, an advanced alien culture might, more appropriately, write about a matter-antimatter drive for a starship in language resembling the famous "Feynman Diagrams" of Quantum Field Theory.

We all think of an electric field, or a gravitational field, as being "smooth" and "continuous" - decreasing smoothly in strength, as one moves further away from the source.

But Quantum Field Theory says that things aren't like that!

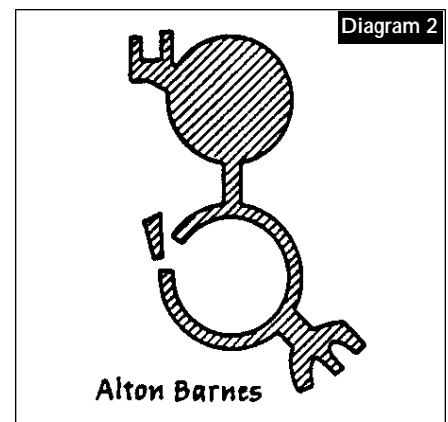
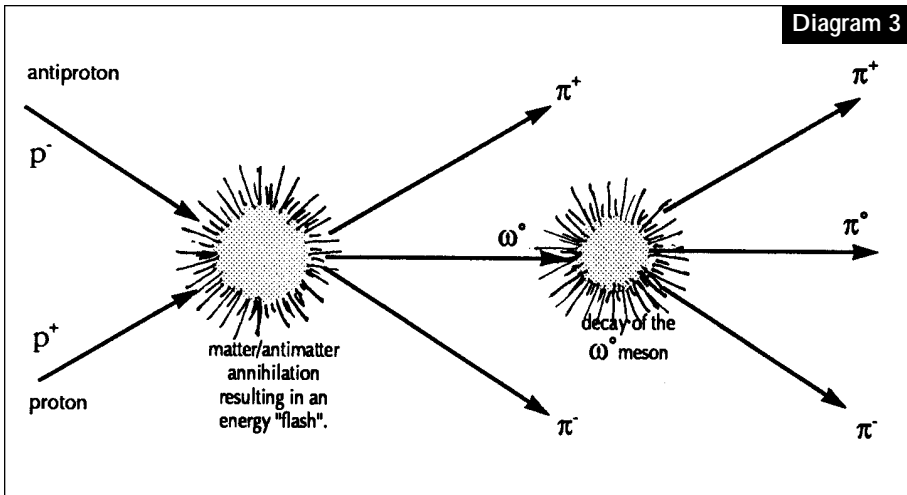


Diagram 2

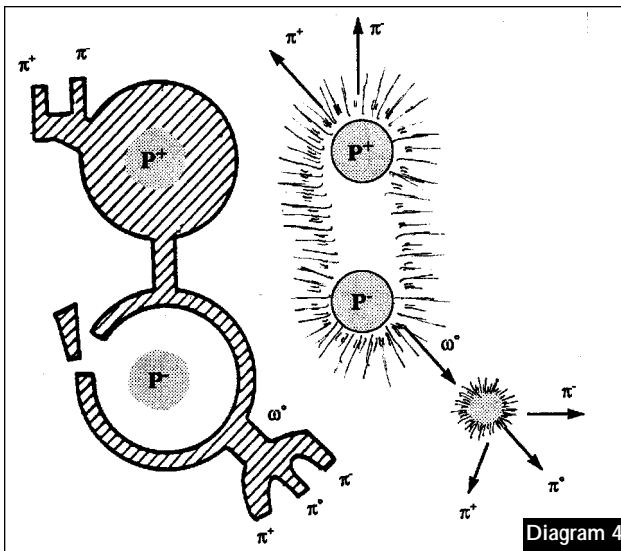


designs is the "hadron resonance". All the sub-atomic ("hadron") particles are made of quarks and, sometimes, these quarks spin or vibrate in a more-energetic-than-usual way giving rise to an "excited" hadron which may decay back to its normal state (diagram 5)

These few examples, then, show that there is a close analogy between crop patterns and the Feynman Diagram processes of Quantum Field Theory and sub-atomic particle physics.

Could these glyphs be an alien message, telling us how to build a matter-antimatter drive for a starship?

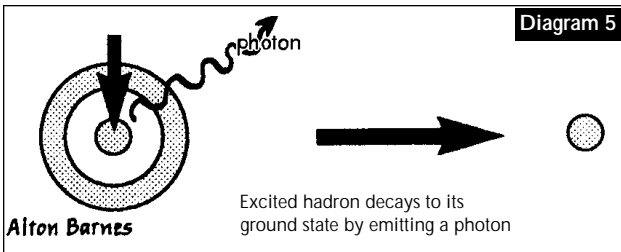
Further research may tell!



The Pepper-box Hill glyph (see diagram 1) looks like two subatomic particles experiencing a "quantum field interaction" due to the exchange of three messenger particles:

We will now take just a portion of the Alton Barnes glyph (diagram 2). A reasonable assumption is that a shaded circle represents matter (a proton p^+ say), whilst a 'white' circle represents anti-matter (an antiproton p^- say).

If an antiproton is collided with a proton, they annihilate each other (matter and antimatter don't co-exist much). Out of the resulting energy flash we can obtain two pions ($+$ and $-$) and an ω^0 meson which, in turn, decays into three more pions as follows: (see diagram 3)



The source of a field (electric or gravitational) emits showers of "messenger" (or "ghost") particles in all directions.

In the case of the electric field, electrically charged particles emit showers of messenger "photons".

In the case of gravitational fields, massive objects emit showers of "gravitons".

In either case, as one moves closer to the source, the "rain" of messenger particles is denser, so therefore the field strength is greater.

gram 3)

This matter-antimatter annihilation process releases showers of pions with copious quantities of energy. And we can represent the process quite well with the Alton Barnes glyph, labelling it as follows: (see diagram 4)

The lifetime of the ω^0 meson is extremely short, 10-23 seconds, so we never actually "see" it. We only see five pions escaping from the p^+ annihilation.

Another important element in these

About the Author:

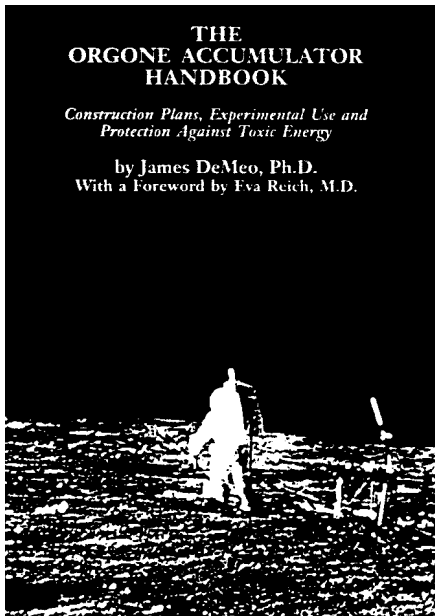
Chris Illert is a former staff member of Wollongong University and leading theoretical physicist and mathematician whose papers, published in prestigious international multilingual science journals, have won various awards and prizes. Two of his papers in the Italian theoretical physics journal "Nuovo Cimento" have recently been selected by the American Physicists Association (S.P.I.E.) as amongst the best contributions to an area of science for more than a century.

These prize winning papers were reprinted in full, in the "S.P.I.E. Milestone Series" along with the papers of Louis Pasteur, Francis Crick, and other Nobel Prize winners, as the best contributions in the past century. His computer graphics are also well known internationally, with a full colour plate appearing recently in Scientific American (Jan. 1991, p91): "computer Creatures From An Unseen World".

REICH AND ORGONE ENERGY

A Review of "THE ORGONE ACCUMULATOR HANDBOOK" by James DeMeo, Ph.D.

Reviewed by Duncan Roads



SUPPRESSION OF ORGONE INFORMATION

It is now over 34 years since Wilhelm Reich died in Lewisburg Federal Penitentiary, just two weeks before his parole date. Reich had been charged with Contempt of Court, when his assistant committed a technical violation of an Injunction banning the spread of any work dealing with "Orgone".

Just what was this "Orgone" that threatened both the medical and scientific community in the USA so much that most of Reich's work was ordered destroyed by the Court.

Reich had already been put on the death lists of both Hitler and Stalin, with they also ordering the destruction of his research notes. So when Reich arrived in the USA in 1939, he attracted many eager scientists and doctors to assist in his amazing work.

It was the U.S. Food & Drug Administration who sought and obtained a Federal Court Decree of Injunction, which ruled that the orgone energy "does not exist". Any books and research journals bearing the word "orgone" were ordered destroyed, and devices using the energy, dismantled or destroyed. (Case #1056, March 19, 1954, US District Court, Portland, Maine, Judge John D. Clifford, Jr.)

This book is an informaniac's dream. If you ever wanted to build an "Orgone Energy Accumulator", then this is the book for you. As an invention, the orgone accumulator is also now in the public domain, unpatentable, and cannot be dominated by any single individual or corporation. It is also still perfectly legal for citizens to build, own, and use orgone accumulators, (at least in the USA).

A new generation of scientists is now discovering the work of Wilhelm Reich, with great progress afoot in the USA, Germany, France, Italy, England, Canada, and Japan.

The effort to kill the discovery of the orgone has failed.

WHAT IS THE ORGONE ENERGY?

Orgone energy is cosmic life energy, the fundamental creative force long known to people in touch with nature, and speculated about by natural scientists, but now physically objectified and demonstrated.

Reich identified many of its basic properties. For instance, the orgone energy charges and radiates from all living and non-living forms of matter, though with varying rates of speed. All materials affect the orgone energy, by attracting and absorbing it, or by repelling or reflecting it. The orgone can be seen, felt, measured and photographed.

The orgone also exists in a free form in

the atmosphere, and in the vacuum of space. The orgone is most strongly attracted to living things, to water, and to itself. Orgone energy can lawfully stream or flow from one location to another in the atmosphere, but it generally maintains a west to east flow, moving with, but slightly faster than the rotation of the Earth.

The orgone is related to, but quite different from other forms of energy. It can, for instance, impart a magnetic charge to ferromagnetic conductors, but it is not magnetic itself. It can likewise impart an electrostatic charge to insulators, but neither is it fully electrostatic in nature. The orgone also is the medium through which electromagnetic disturbances are transmitted, much in the manner of the older concept of aether, though it is not itself electromagnetic in nature.

DISCOVERY OF THE "BION"

Reich believed that many of the functions attributed to the brain, were really functions of whole-body processes, involving in part the autonomic nervous system, but primarily being the result of the energetic forces he had previously documented. He sought to test the idea that these currents of biological energy, functioned the same in all living creatures, by making millivoltmeter measurements of amoeba during states of expansion and contraction.

Reich made extended and careful microscopical observation of the process whereby the amoeba developed. He did not see spores on the grass blades, swelling up to become new amoeba. Instead he observed that the moss and grass itself would disintegrate and break down into small blue-green vesicles. The tiny vesicles would, over a period of days, develop and clump together, after which a new membrane would form around the clump; the clump of vesicles would roll and pulsate inside the membrane for a period, and eventually the whole thing would move away on its own, having turned into a new amoeba.

Moreover, Reich observed that a number of materials, both organic and inorganic, would, when allowed to disintegrate and swell in a sterile nutrient solution, form the tiny blue-green vesicles.

Reich gave a new name to the unusual microscopic vesicle he had discovered: the bion.

Reich found that certain bion preparations, yielded powerful radiant energy phenomena. Lab workers developed conjunctivitis if they observed the preparations too long, and Reich himself developed a dark tan through his clothing in the middle of winter.

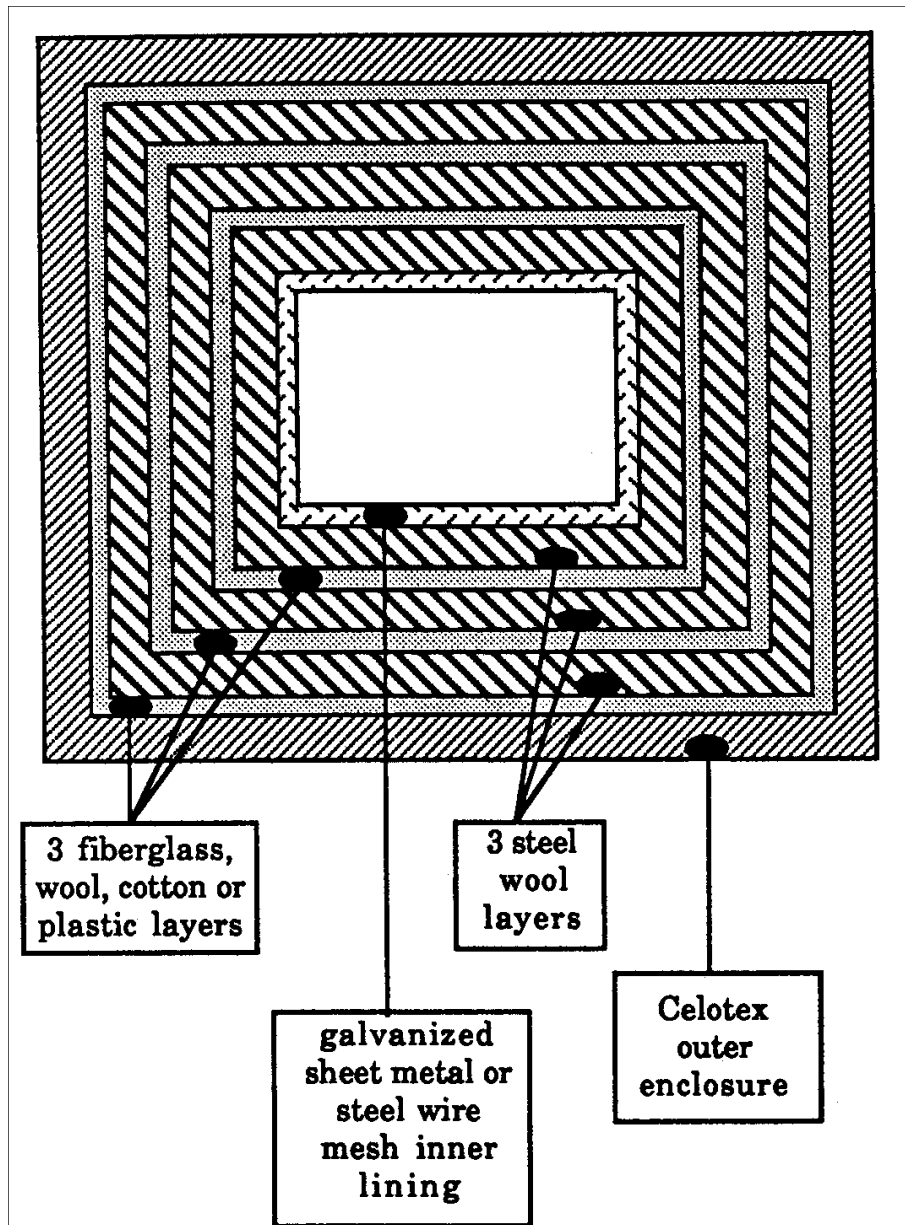
This radiation imparted a magnetic charge to nearby iron or steel implements, and a static charge to nearby insulators, such as rubber gloves.

Reich noted that whatever this bion radiation was, it was rapidly attracted to metals, but just as rapidly reflected away, or dissipated into the surrounding air. Organic materials, however, absorbed this radiation and held onto it. Attempts to identify the new radiation using traditional nuclear or electromagnetic radiation detectors failed.

Reich also noted that the air in rooms containing the special bion cultures would feel "heavy" or charged. When observed at night, in full darkness, the air would visibly scintillate and glow with a pulsing energy. He attempted to capture the energy radiating from his bion cultures inside a special cubical enclosure lined with sheet metal, which he felt would reflect and trap the radiations inside. As expected, the special metal-lined enclosure trapped and amplified the effects of the bion radiation. However, to his amazement, he found that the radiation was also present in the experimental enclosure even when the bion cultures were removed. In fact, there was nothing which could be done to make the observed radiation "go away".

The special metal-lined enclosure appeared to pull the same form of radiation from the air which previously had been observed coming from the bion cultures.

Reich eventually became convinced that the special enclosures were capturing a free atmospheric form of the same energy that he also observed coming from living organisms. He called the newly discovered energy the orgone, and he developed ways to amplify the energy accumulating effects of the enclosure, mainly through multiple layering of the metallic and organic materials. No electricity, magnetism, electromagnetism, or nuclear radiations were employed in these accumulating structures, which were thereafter called orgone energy accumulators.



Simplified diagram of an Orgone Energy Accumulator

THE ORGONE ACCUMULATOR HANDBOOK

CONSTRUCTION PLANS, EXPERIMENTAL USE AND PROTECTION AGAINST TOXIC ENERGY

by James DeMeo Ph.D.,

Foreword by Eva Reich M.D.,

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